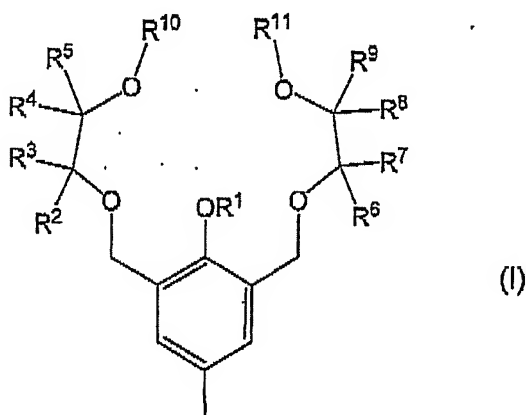


### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### Listing of Claims

Claim 1 (Currently Amended): A fluorescent molecular wire comprising a polymer main chain having a linked conjugated system, wherein to which an optically active substituent is linked to the polymer main chain and is conjugated with the polymer main chain so as to be a conjugatable form, the optically active substituent being represented by the following formula (I):



where R<sup>1</sup> represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, and R<sup>9</sup> represent independently a hydrogen atom, a linear alkyl group having 1 to 30 carbon atoms that may have a substituent, a branched alkyl group having 2 to 30 carbon atoms that may have a substituent, a cyclic alkyl group having 3 to 30 carbon atoms that may have a substituent, an aryl group having 6 to 30 carbon atoms that may have a substituent, or an aralkyl group having 7 to 30 carbon atoms that may have a substituent, and R<sup>3</sup> and R<sup>7</sup> may be bonded respectively to R<sup>4</sup> and R<sup>8</sup> to form an alkylene group having 2 to 60 carbon atoms that may have a substituent; and R<sup>10</sup> and

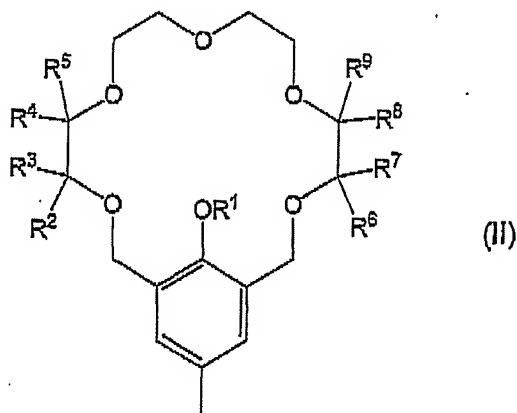
R<sup>11</sup> represent independently a hydrogen atom or an alkyl group having 1 to 15 carbon atoms that may have a heteroatom, and R<sup>10</sup> and R<sup>11</sup> may be bonded to form an alkylene group having 2 to 30 carbon atoms that may have a heteroatom.

Claim 2 (Previously Presented): The fluorescent molecular wire of claim 1, wherein the polymer main chain having a linked conjugated system is a polyarylene structure, a poly(arylene ethynylene) structure, or a poly(arylene vinylene) structure.

Claim 3 (Previously Presented): The fluorescent molecular wire of claim 1, wherein the polymer main chain having a linked conjugated system is a polyphenylene structure, a polythiophene structure, a poly(phenylene thiophenylene) structure, a poly(phenylene ethynylene) structure, a poly(thiophenylene ethynylene) structure, or a poly(phenylene vinylene) structure.

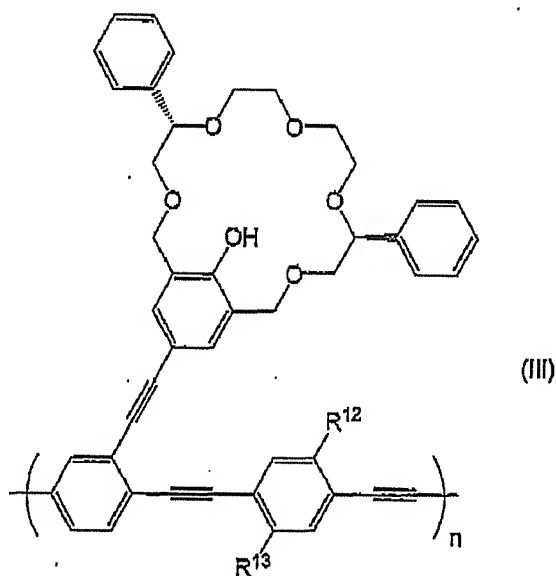
Claim 4 (Previously Presented): The fluorescent molecular wire of any one of claims 1 to 3, wherein the optically active substituent is coupled to the polymer main chain having a linked conjugated system via mono- or poly-arylene, mono- or poly-alkylene, mono- or poly-vinylene, or a combination thereof.

Claim 5 (Previously Presented): The fluorescent molecular wire of any one of claims 1 to 4, wherein the optically active substituent is represented by the following formula (II):



where  $R^1$  represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; and  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$ , and  $R^9$  represent independently a hydrogen atom, a linear alkyl group having 1 to 30 carbon atoms that may have a substituent, a branched alkyl group having 2 to 30 carbon atoms that may have a substituent, a cyclic alkyl group having 3 to 30 carbon atoms that may have a substituent, an aryl group having 6 to 30 carbon atoms that may have a substituent, or an aralkyl group having 7 to 30 carbon atoms that may have a substituent, and  $R^3$  and  $R^7$  may be bonded respectively to  $R^4$  and  $R^8$  to form an alkylene group having 2 to 60 carbon atoms that may have a substituent.

Claim 6 (Previously Presented): The fluorescent molecular wire of claim 5, which is represented by the following formula (III):



where  $R^{12}$  and  $R^{13}$  represent independently a hydrogen atom, an alkyl group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, a di- or mono-alkylamide group having 1 to 20 carbon atoms, or an alkyl ester group having 1 to 20 carbon atoms; and  $n$  is an integer of 5 or more.

Claim 7 (Previously Presented): A chiral sensor comprising the fluorescent molecular wire of any one of claims 1 to 6.